

MICROLINKS TECHNOLOGY CO., LTD.

# User's Manual

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## MICROSCOPE Application Program Operates Manual

MLTC

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# MICROSCOPE Application Program Operates Manual

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## 1. Application Program Interface Introduction

After the user use MICROSCOPE application program, it will show illustration picture in Fig.1-1.A tool is arranged and divided into the window. The main button and file tabulate is in 3 groups, which the left and right windows are the two sub windows. On the left window, it will show MICROSCOPE whether USB digital video device is connected. If it's not connected the button will be a white result as Fig.1-2 shows.

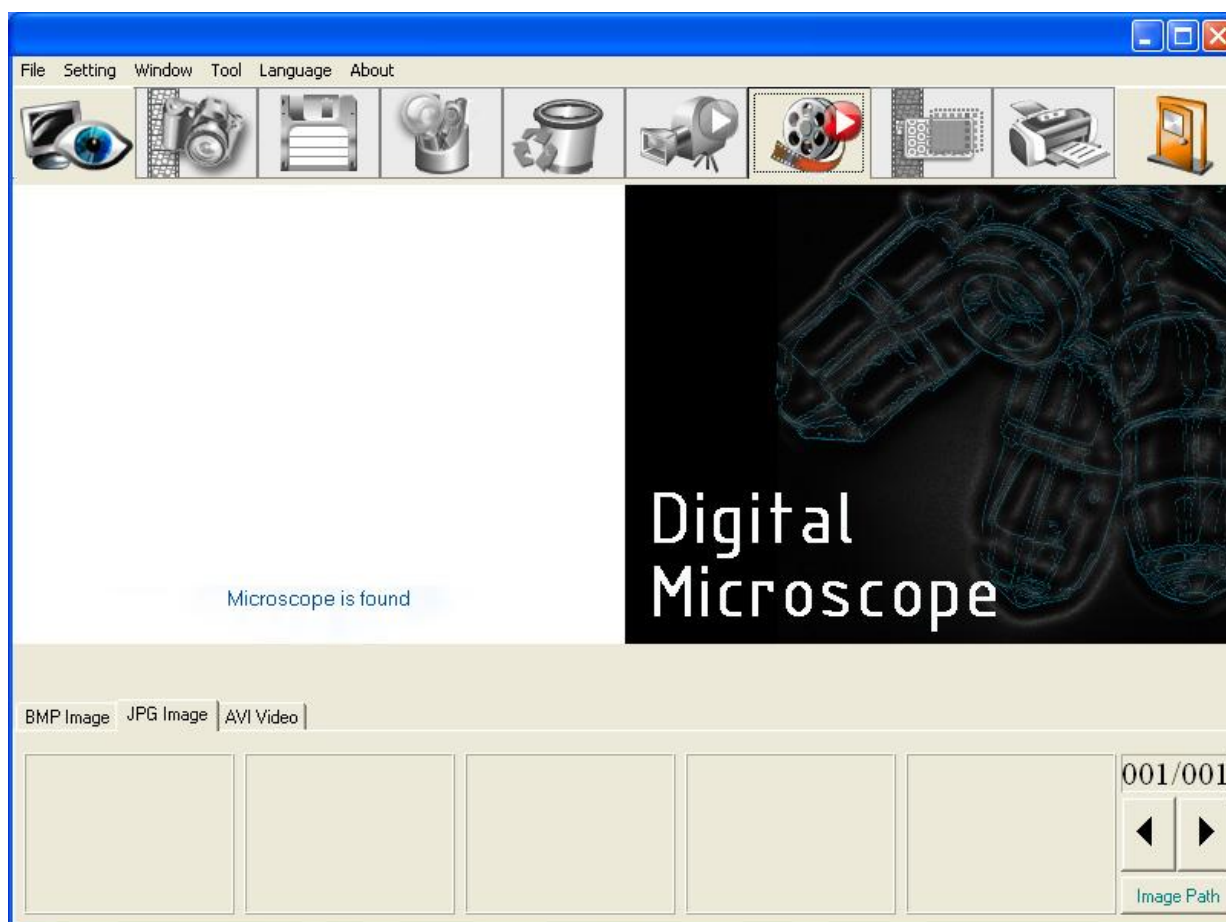


Fig. 1-1 main window picture



Fig. 1-2 connected button white

To prove Fig. 1-1 into three major model's groups, it provides the including:

### 1.1 Main Toolbars

The picture is based on Fig.1-3 the tool of the application program arranges the group, which includes File, Setting, Window, Tool, Language and About altogether.

File Setting Window Tool Language About

Fig. 1-3 arranging tools model group

## 1.2 Main Function Buttons

Fig.1-4 is a main button group which is very useful function or basic function, which includes connecting, taking pictures, saving, editing...etc. there are 10 functions button.



Fig. 1-4 main button group

## 1.3 The File List/Folder

Fig.1-5 is the tabulate of the saved images in the application program. The main list will list the files in the existing folder, which includes BMP folder, JPG folder and AVI folder.



Fig. 1-5 file list group

## 1.4 Mode Functions

After open MICROSCOPE program, please click connect button shown in Fig.1-1, when it is connecting, mode functions toolbar will show under the left side of sub-window.

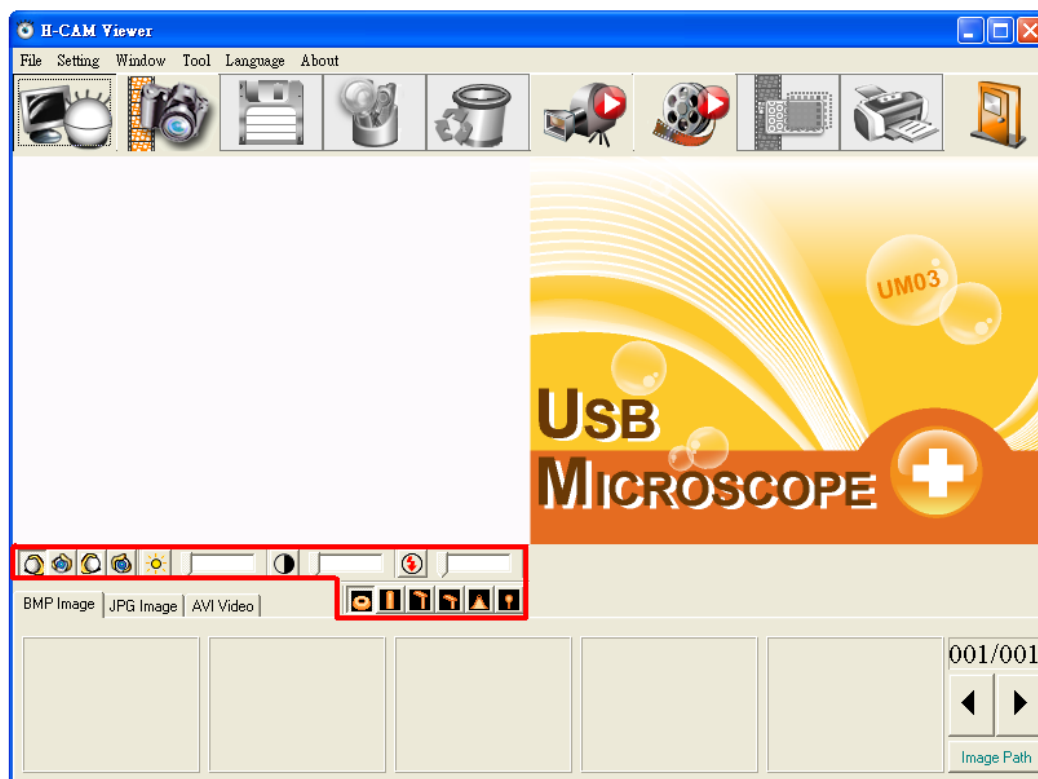


Fig 1-6 Connect Application program

## 2. Main Toolbars

The tool arranges the group and pursues to show, which include file, setup, window, tool, Language and select greatly about 5 of the choices altogether.

### 2.1 File

In the beginning, file introducing tools and arranging file choice. The file can open file and store the file again while selecting, and wait...etc shown as Fig.2-1.

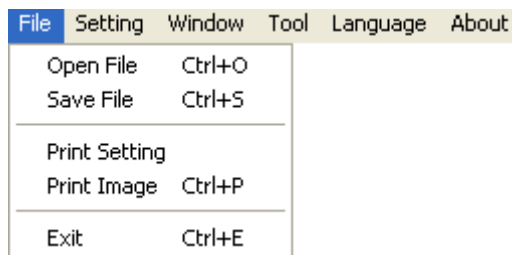


Fig.2-1 Choose file

#### 2.1.1 Opening File

Opening file has three kinds Bmp, Jpg and Avi, which open preserving the route and taking the file tabulates pages to sign at present as a basis of the file, sign portion 3.1 to more narrate in page. If the file tabulates pages and signs for Bmp picture, open the materials and insert Bmp picture route in order to preserve in the route, as Fig. 2-2 shows. If the file selected tabulates pages to sign for Jpg picture, open the materials and insert Jpg picture route in order to preserve in the route. If the file selected tabulates pages to sign for the Avi film, open the materials and insert Avi film route in order to preserve in the route. Ctrl +O are a fast key.

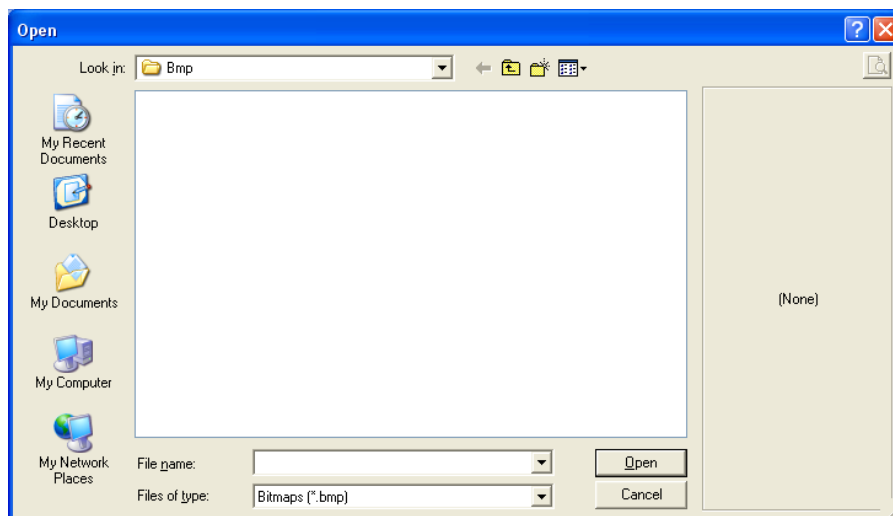


Fig.2-2 Opening bmp file

### 2.1.2 Save File

Saving file's file, there are only Bmp and Jpg 2 types; saving the same as Fig1-1 of the left window will show the picture. Storing the file name is the program will produced automatically by the procedure; the user can change the name by themselves. File name is annual in year (yyyy), month(mm), day(dd), hour(hh), minute(nn), second(ss) setting, which Bmp\_20080829180445.bmp as 2008(yyyy) 08(mm) 29(dd) 18(hh) 04(nn) 45(ss), which this way is the name of file won't be repeated and it can also be realized the date and time by stored file name.

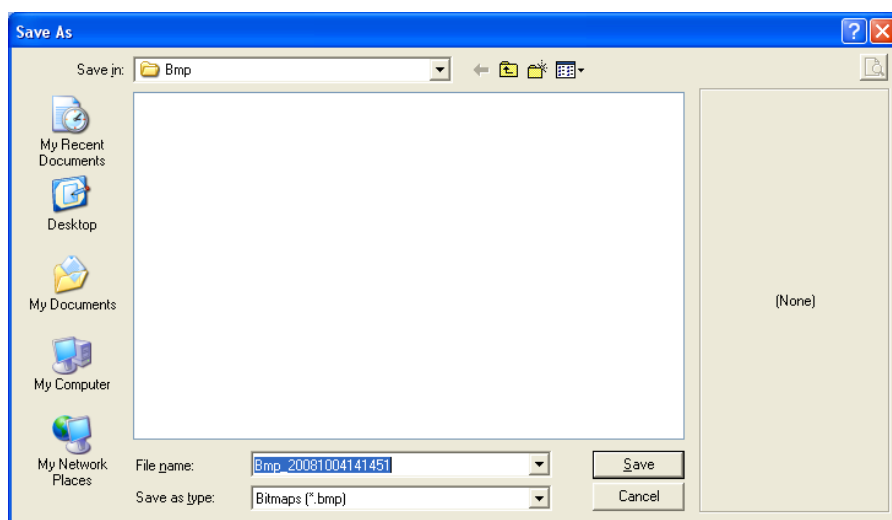


Fig.2-3 save file

### 2.1.3 Printer Setup

Set up printer can adjust paper between size, source or printer type.

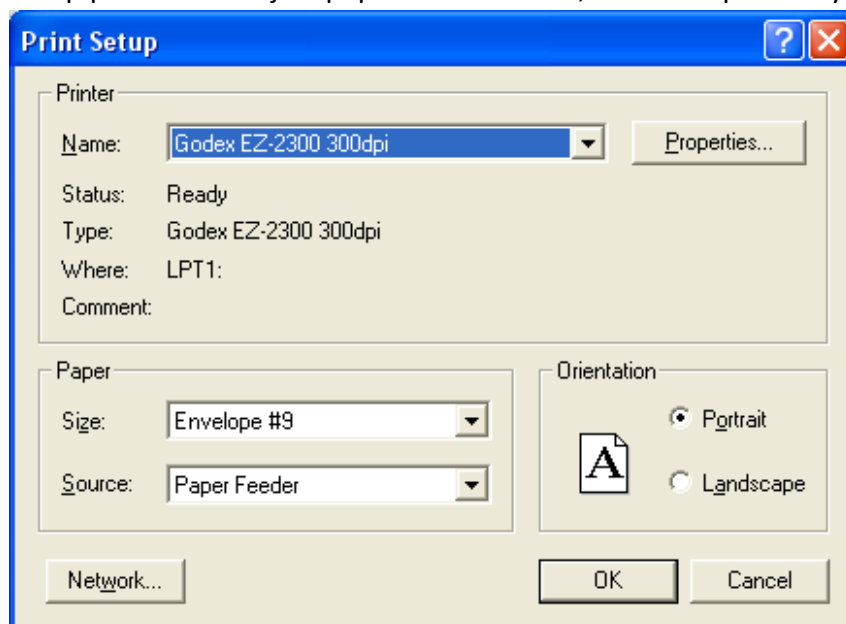


Fig.2-4 setup printer

### 2.1.4 Print Picture

Ctrl+P are a fast key

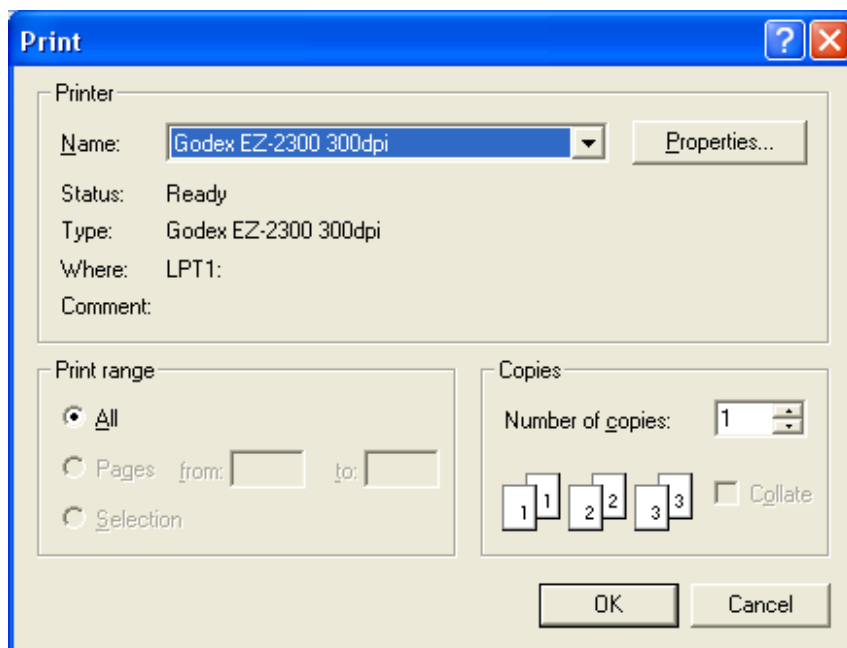


Fig.2-5 print

### 2.1.5 Exit

Once to choose to exit, the program would close. Ctrl+E are a fast key.

## 2.2 Setting

The Setting function is mainly to set up Video Format and JPG compression quality as Fig. 2-6 shows. If MICROSCOPE device isn't at the line, video format and video signal source unable to set up (setting in white bar); it can set up on the contrary.

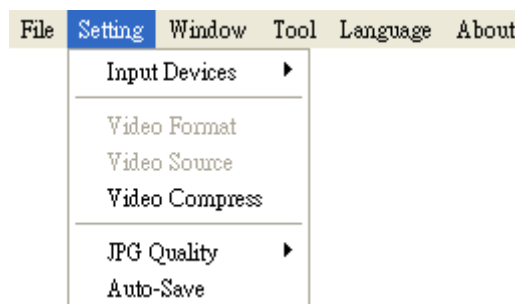


Fig. 2-6 Select Setting



### 2.2.1 Optional Input Devices

Fig 2-7 when there are 2 Input Devices connecting to PC at the same time, it allows you to choose.

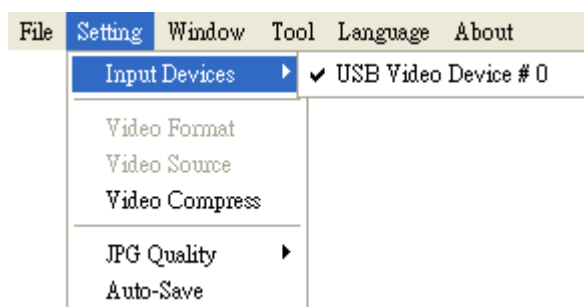


圖 2-7 Optional Input Devices

### 2.2.2 Video Format

Video Format is mainly to set up the frame rate, color space and output size etc. Fig 2-8a is the Video Format of built in UVC Driver contents. Frame rate is frame numbers per second (fps) for playing. Adjust the output size will slower or faster the fps, for example, if the fps is higher, the preview video will be less clearly but with smooth performance. On the contrary, if the fps is lower, the image will be more clear but with a little lagging performance. This is due to the more frames requires the more CPU loading then cause the lagging performance.

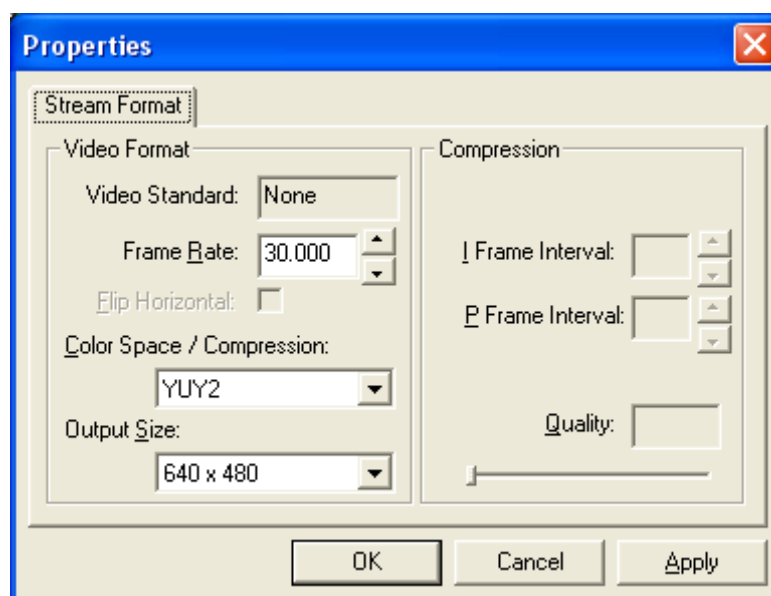


Fig. 2-8 Video format table before installing MICROSCOPE driver

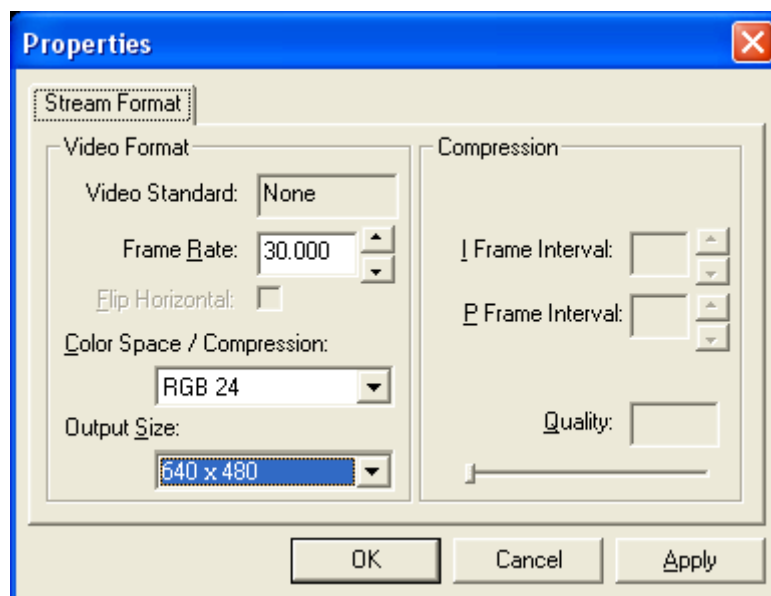


Fig.2-8b Video Format content after installed MICROSCOPE driver

### 2.2.3 Video Format Source

Fig. 2-9a & Fig. 2-9b are Properties of Video Format source with or without install MICROSCOPE driver, i.e., it uses Windows' built-in driver. Fig. 2-9a Video Proc Amp allows User to adjust the parameter.

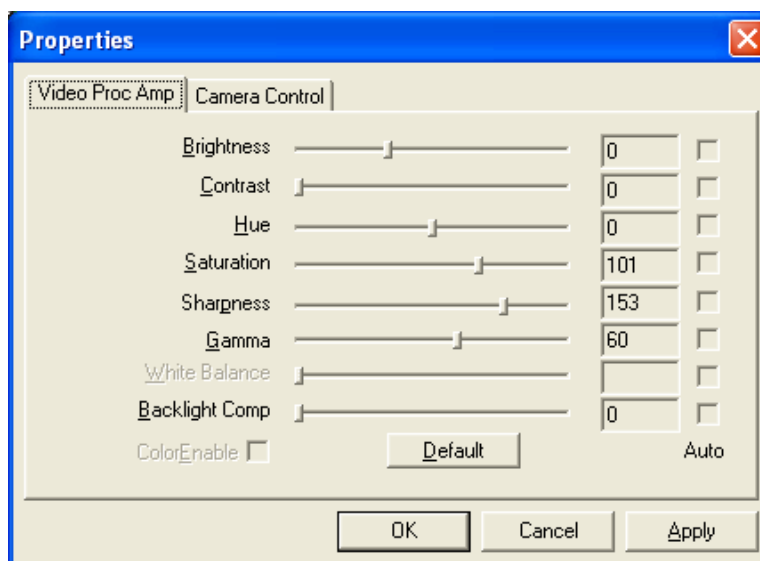


Fig. 2-9a Table of Video Proc Amp content without installing MICROSCOPE driver

Fig. 2-9b Table of Camera Control allows User to adjust the parameter. In generally, Windows built-in driver can support limited functions.

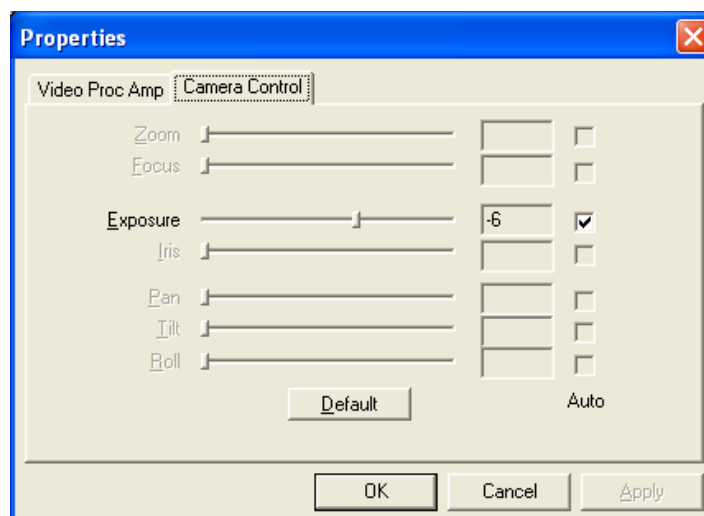


Fig. 2-9b Table of Camera Control without installing MICROSCOPE driver

Fig. 2-9c, 2-9d & 2-9e are properties of Video Format source with installing MICROSCOPE driver. Firstly, it sets up Video image quality for Brightness 、 Contrast 、 Gamma etc. as Fig. 2-12. If the Video image is rotating, it can use vertical rotating and horizontal rotating. Besides, other functions can be applied by User.

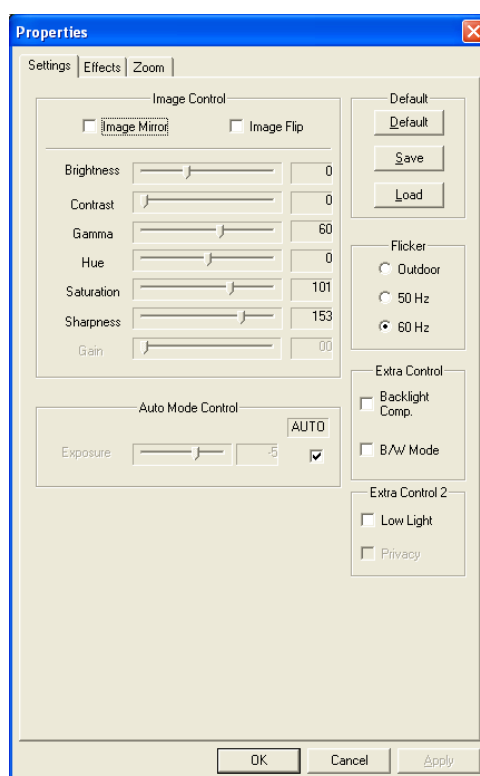


Fig. 2-9c Properties of Video Format source with installing MICROSCOPE driver

Fig.2-9d is Function of special Video Effects, beside of effects, there is Frame function, the Frame styles can be customer zed.

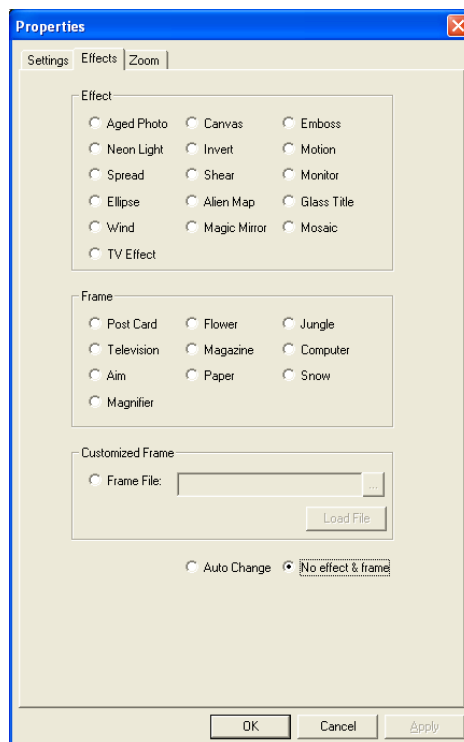


Fig. 2-9d Properties of Video Format source with installing MICROSCOPE driver

Fig. 2-9e It can enlarge and shrink the image, also move the position and enable face tracking.

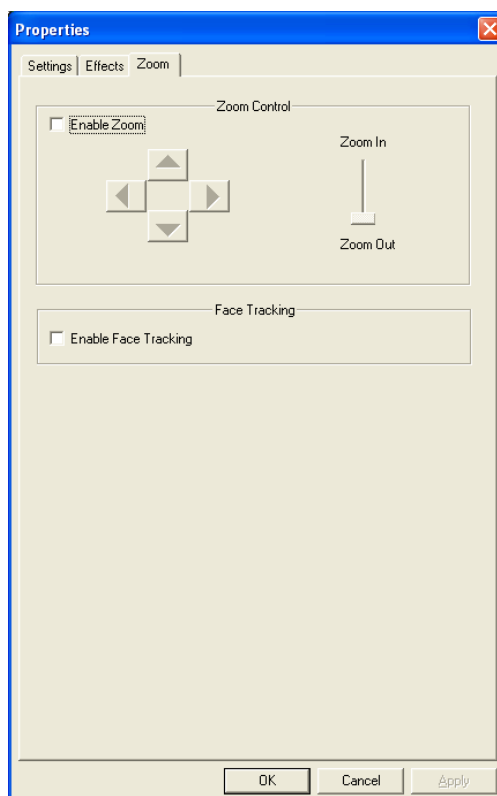


Fig. 2-9e Properties of video format source with installing MICROSCOPE driver

#### 2.2.4 Video Compressor

Normally, the video size is huge before compressor. We can use Compressor function to reduce the file size. There are optional Compressors which are built-in or can be installed by DIVX or other tool. Once the installation is completed, you can see them at the optional Compressors.

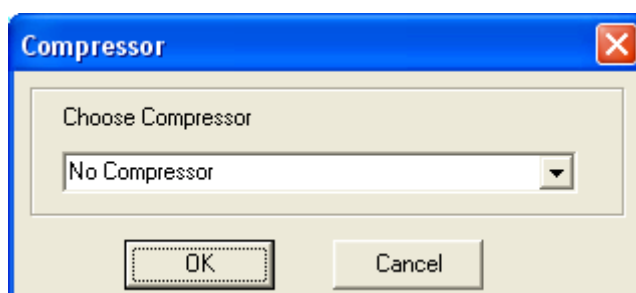


Fig. 2-10 Optional Compressors

### 2.2.5 JPG Quality

User can choose different JPG quality.

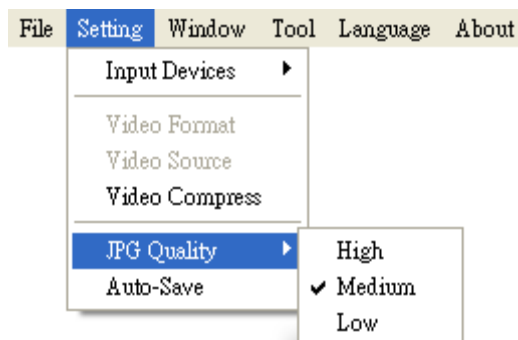


Fig. 2-11 Setting JPG qualities

### 2.2.6 Auto-Save

From 「Setting->Auto-Save」 shown Fig. 2-12, after checked auto-save, when clicking the save buttons it will not show the save dialog. The system will generate a file name and auto-save the file.

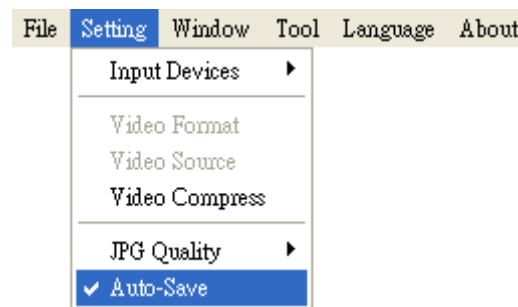


Fig. 2-12 auto-save option

## 2.3 Window

The Windows can be chosen per USER's preferred window size. But it need depend on User's PC to choose a suitable resolution as Fig. 2-13. For example, your PC is 1280\*960 pixels; you can choose 1280\*960.

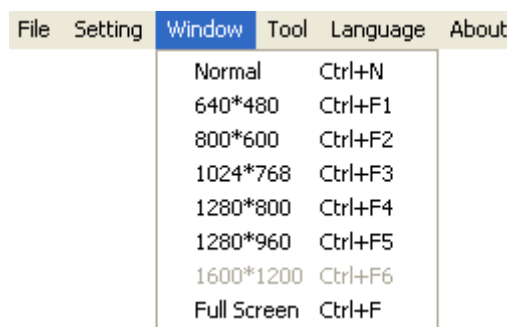


Fig. 2-13 optional window size

User can choose full screen under window mode. The original left window in the AP will become a single window, available tool bar of the connection (disconnection), snapshot, video recording and film broadcasting under the full screen.

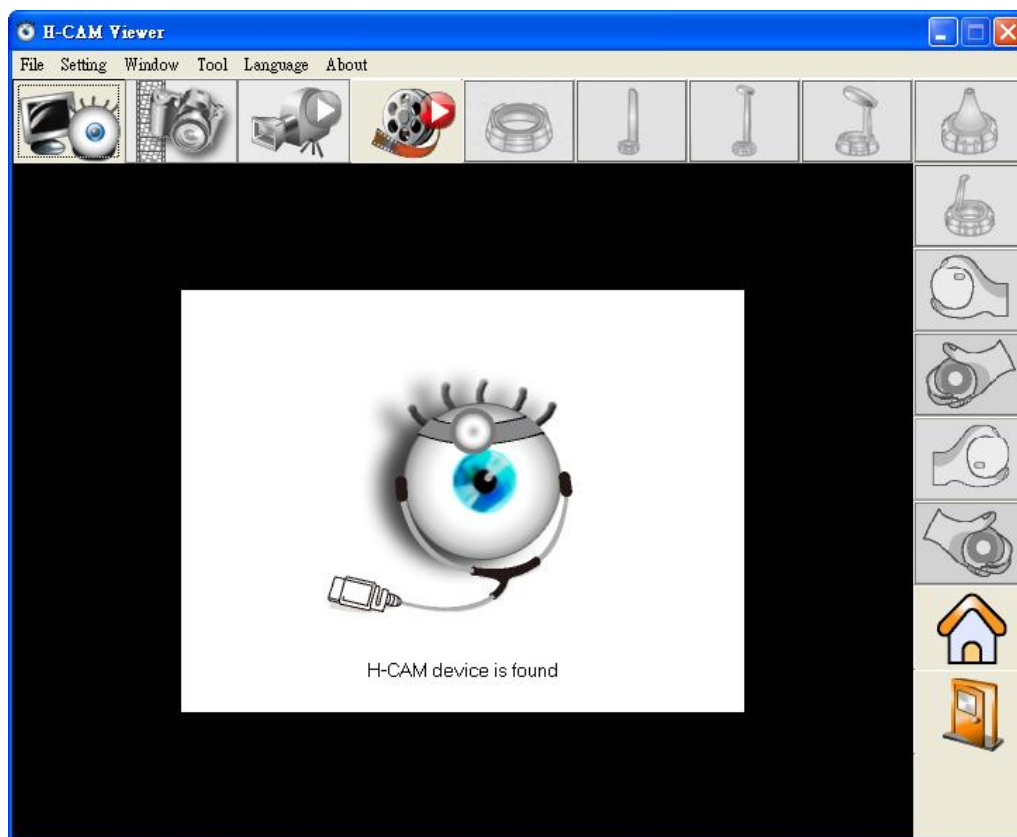


Fig. 2-14 Full screen of 640\*480 under Window mode

If changing to single window and want to return to normal mode can click on Fig. 2-15 image to go back.



Fig.2-15 Normal Mode

Single window also has 10 functions of video control mode shown Fig. 2-16. To preview other functions of 「video control mode」 will be explained in section 4.



Fig.2-16 10 Functions of Video Control

Click snapshot button and will pop up fig. 2-17, it provides function of open file, save file, Delete image, Image process and Print image.



Fig. 2-17 Image Viewer of window



## 2.4 Tool

Use the Tool to open file and set up Path.

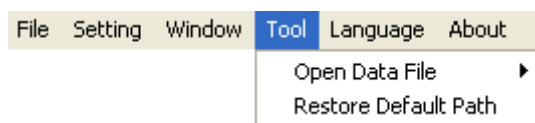


Fig. 2-18 Tool

### 2.4.1 Restore default path

The function allows User to preserve the initial setting route, easily find and Save the video and photos at the preserved route

### 2.4.2 Open data File

Open files at BMP 、JPG & AVI folder.

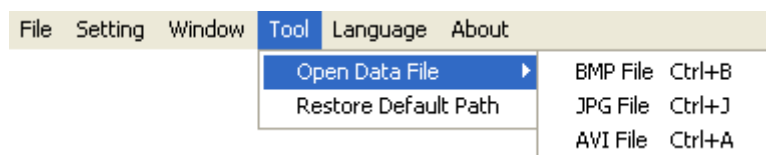


Fig.2-19 Open file folder

## 2.5 Language

The version includes 5 multi-languages ; English 、Tradition Chinese 、Simplified Chinese 、Japanese & German. The initial language will automatically follow up User's OS system. It can choose the other language, too.

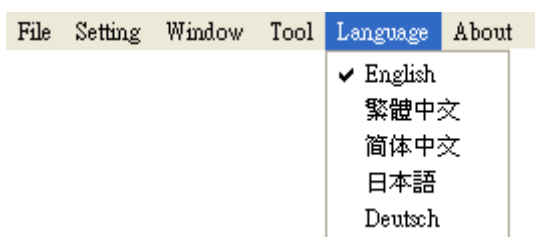


Fig.2-20 Select language

## 2.6 About

Show the MICROSCOPE relevant information.

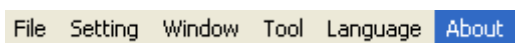


Fig.2-21 select about

Learn the application program version, MICROSCOPE hardware manufacturer MICROSCOPE and the copyright of the application program.



Fig.2-22 about MICROSCOPE

### 3. Major Keys

Fig.1-4 is a main button group which is very useful function or basic function, which includes connecting, taking pictures, saving, editing...etc. there are 10 functions button.



Fig. 1-4 main button group

#### 3.1 Connect/Disconnect

##### 3.1.1 Connect

The connect icon is as Fig. 3-1, the user will connect the line while pushing the connect button, namely connect with MICROSCOPE device. If it cannot connect, please reinsert MICROSCOPE device to the other USB port.



Fig.3-1 Connect button icon

##### 3.1.2 Disconnect

The button icon which shows disconnect is like Fig. 3-2, the users please push this button to disconnect. When the user starts and broadcasts the film button, MICROSCOPE will be disconnected automatically. People who take off line establishment, Video Format m will restore the preserved setting value.



Fig 3-2 disconnect button icon

#### 3.2 Snapshot

Snapshot icon is as Fig. 3-1, the function allows taking a photo in Preview 、Video & Play, and image size depends on Video Format source, i.e. Height & Width.



Fig 3-3 snapshot button icon

### 3.3 Save Image

Save image icon is as Fig. 3-4, the saved file name is automatically created. The detail of the file name is as description 1.1.2.



Fig 3-4 save image button icon

### 3.4 Edit the Picture / Diverge From Editor's Picture

#### 3.4.1 Editor's picture

The editor is as Fig. 3-5 including several convenient functions.



Fig. 3-5 editor icon

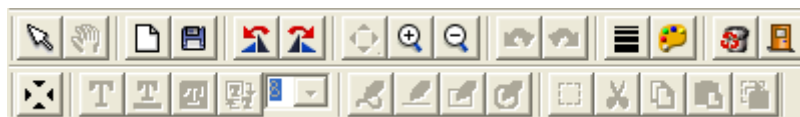


Fig. 3-6 editor tool

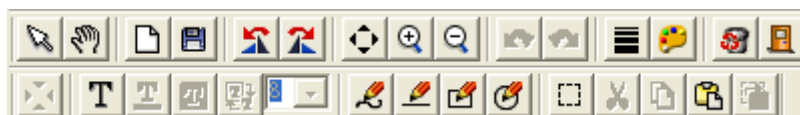



Fig. 3-7 Click (  ) to start editor tool

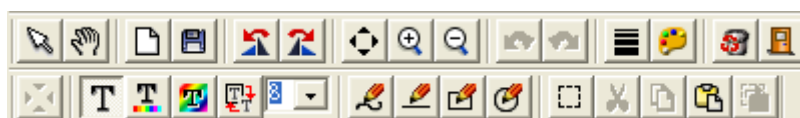



Fig. 3-8 Click (  ) to start text tool

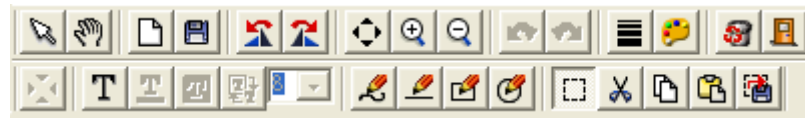
















Fig.3-9 Click (  ) to start other functions

「 Editor Image 」 toolbar includes many functions, below will explain each functions:

- ⊕ Normal  : When this button is clicked, all the buttons will return to normal.
- ⊕ Move Image  : When the 「 original fit  」 button begins using, select 「 Move Image 」 and click mouse of left button to move on the image.
- ⊕ New File  : 「 New file 」 can open a blank page of image, image size is 400\*300 by the Fig 1-1 of the right side window size.
- ⊕ Save Image  : Save Fig 1-1 is right side window of image. The image size by video format of output size.
- ⊕ Rotate Left  : Image can rotate left 90 degree.
- ⊕ Rotate Right  : Image can rotate right 90 degree.
- ⊕ Fit The Window  : This function can let image to fit the window size. When selecting this function, it cannot use 「 edit text 」, 「 select 」, and 「 drawing 」 functions.
- ⊕ Zoom In  : Enlarge image without interpolation therefore if the scale larger than original size distortion will appear.
- ⊕ Zoom Out  : To shrink image.
- ⊕ Undo  : To go back the movement and only can use up to 3 times
- ⊕ Redo  : To go to next movement and only can use up to 3 times.
- ⊕ Line Style  : Choose line style by clicking 「 Line style 」 button and it will

pop up(Fig3-10) dialog box.



Fig. 3-10 Choose line styles



















- ⊕ Color  : To choose pen's 「color」 click on the color button and it will pop up (Fig 3-11) dialog box.



Fig. 3-11 Choose color

- ⊕ Delete Image  : The Fig1-1 right side window of image will be deleted.
- ⊕ Exit Editor  : To exit image editor,the「image editor」toolbar will be closed.

- ⊕ Original Fit  : When the image size is bigger than the window, using this function, it can do 「 Edit text 」, 「 select 」, and 「 drawing 」 functions. The window won't see the whole image, but only some parts.
- ⊕ Edit Text  : Edit text is words that can be written on image.
- ⊕ Edit Text Color  : Text color can be changed by clicking 「 edit text color 」 button and it will pop up (Fig 3-11) dialog box.
- ⊕ Edit Text Background Color  : Text background color can be changed just by clicking 「 edit background color 」 and it will pop up (Fig 3-11) dialog box.
- ⊕ Edit Text Background Transparent  : Text background can be set as transparent with no background color.
- ⊕ Text Size  : Text size can be changed.
- ⊕ Pen  : Pen can draw anything and its function is like a regular pen and pencil.
- ⊕ Line  : Draw stright line.
- ⊕ Rectangle  : Draw rectangle.
- ⊕ Ellipse  : Draw ellipse.
- ⊕ Select  : Selects the area on the image, after the selection, it can cut, copy, paste, and save the selection area function.
- ⊕ Cut  : Cut frame on the Fig1-1 right side window of image.
- ⊕ Copy  : Copy selected frame on the Fig1-1 right side window of image.
- ⊕ Paste  : Paste whats been cut or copied image to display on the Fig1-1 right side window of image.
- ⊕ Save Select  : Save selected frame on the Fig1-1 right side window of image.

### 3.4.2 Leave Editor



Fig. 3-12 Editor icon

### 3.5 Delete Image



Fig. 3-13 delete image icon

### 3.6 Video recording / Stop Making Video Recording

#### 3.6.1 Recording

Press video recording icon and firstly name the file name, the file name is automatically shown as description 1.1.2.



Fig. 3-14 video recording icon

#### 3.6.2 Stop Recording



Fig 3-15 stop recording icon

### 3.7 Film Broadcasting / Stopping Broadcasting



### 3.7.1 Film Broadcasting

The recorded video will plays at left window as Fig. 1-1. Once it palys, the microscope is automatically disconnected.



Fig. 3-16 film broadcasting icon



Fig. 3-17 Tool of playing







- ⊕ Play  : This button can play video.
- ⊕ Pause  : This button can pause video.
- ⊕ Stop  : This button can stop video.
- ⊕ Repeat  : This button can repeat play video.
- ⊕ Exit  : This button can exit video mode.
- ⊕ No Flip  : Video image's flip direction, does not makes any flip shown in Fig 3-18.




Fig 3-18 Video image with no flip

- ⊕ Vertical Flip  : The video image upside down 180 degree, which is

vertical flip, shown in Fig. 3-19.



Fig. 3-19 Video image do vertical flip

- ⊕ Horizontal Flip 「」: The video image left and right mirror 180 degree flip which is horizontal flip shown in Fig. 3-20 °

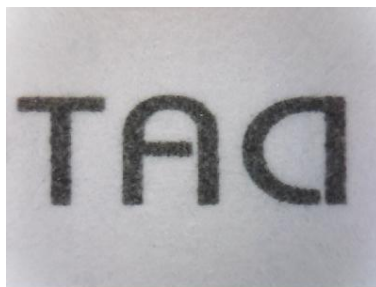


Fig 3-20 Video image do horizontal flip

- ⊕ Vertical and horizontal Flip 「」: The video image will do horizontal and vertical flip shown in Fig. 3-21

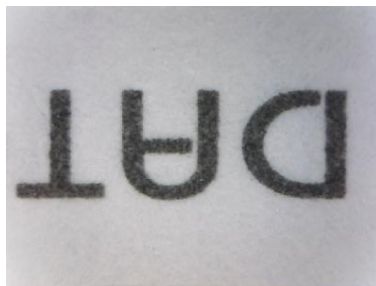


Fig. 3-21 video image becomes horizontal flip

Click right of mouse to show Fig. 3-22



Fig. 3-22

### 3.7.2 stop broadcast

Once it stops play, the microscope is still disconnected.



Fig. 3-23 stops broadcasting

### 3.8 Edit Image / Leave Editing

#### 3.8.1 Image Editor

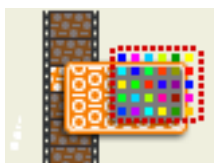


Fig. 3-24 Image Editor Icon

Once it clicks Fig. 3-18, it will show Fig. 3-25 .











Fig. 3-25 Tool of Image Editor Once it clicks ,  it can set up the value. The image will be changed, too.



Fig. 3-26 Changing Threshold

Below is image process function explanation :

- ⊕ Original Image  : This function can let image return to original image.
- ⊕ Gray Level :  : This function can let the image from color change to gray
- ⊕ Highlight Edge  : This function can let the image show it's highlight edge
- ⊕ Highlight Pxiel  : This function will strengthen in the picture between the different pixels.
- ⊕ Black/White  : This function can let the image from color turn to black and white

 Inverse : This function can let the image become inverse.

 Exit : This button is to exit video mode.

### 3.8.2 Leave Image Editor

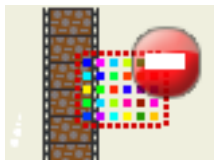


Fig. 3-27 Leave Image Editor

### 3.9 Print Image



Fig 3-28printing image

### 3.10 Diverge from the application program



Fig. 3-29 diverges from the application program

## 4. The file List/Folder

The file tabulates pages and signs as Fig. 1-5 shows, file is it list file materials insert file in, include BMP materials insert, JPG materials insert and AVI materials insert three at present mainly to tabulate.

### 4.1The File Tabulates

Fig.4-1 tabulate for BMP 、JPG & AVI files

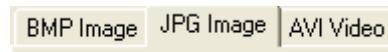


Fig. 4-1 file tabulates

### 4.2The File Tabulates On Page Number



Fig. 4-2 the file tabulates on page number

#### 4.2.1 Show the number of pages

001/001= X/ Y, X is sequence and Y is total number of pages.

#### 4.2.2 Change page button

Fig 4-2 left and right button can be change page number. Left button is to decrease page number and right button is to increase page number.

#### 4.2.3 Image Path

Click the 「Image Path」 to show Fig. 4-3 and choose the file director

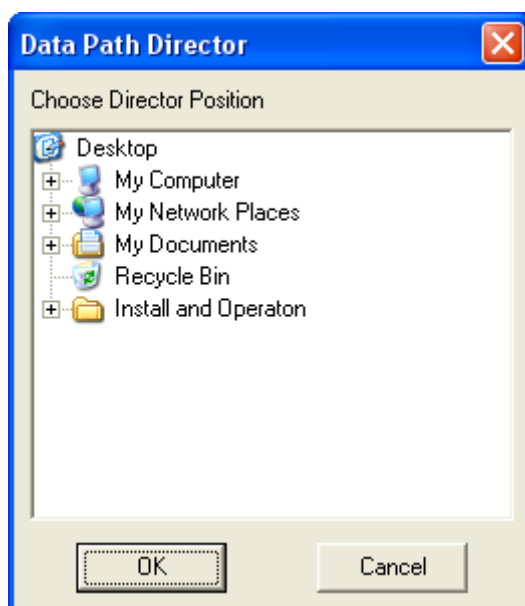


Fig. 4-3 Data Path Director

#### 4.3 Quick Click

Click right of Mouse on the saved image and show Fig.4-4, it can directly Open or Delete file.

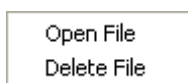


Fig. 4-4 Quick click

## 5. Mode Function

When connect with MICROSCOPE AP, below the left window will show scene toolbar. See Fig 5-1.

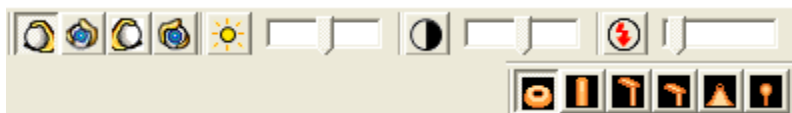


Fig. 5-1 mode function toolbar

### 5.1 Video Control and rotation mode

This toolbar has the functions to flip video image. The image will presented upside down as well as the image moving direction when holding by different hand. By the mode, it can preview the correct direction. The brightness, contrast and exposure tool can be adjusted and also can cause the video image to be clearer in different scene. Fig.5-2 is the selection video control mode. Fig.5-22 is the toolbar of video control mode.



Fig 5-2 Video control and rotation mode toolbar

5.1.1 No Flip 「」: Video image's flip direction, does not makes any flip shown in Fig 5-3.

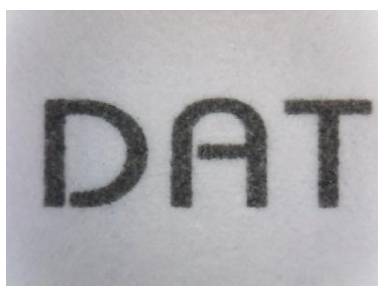



Fig 5-3 Video image with no flip

5.1.2 Vertical Flip 「」: The video image upside down 180 degree, which is vertical flip, shown in Fig. 5-4.

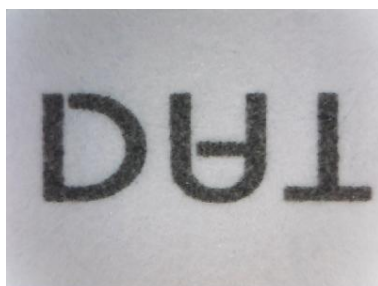


Fig. 5-4 Video image do vertical flip

5.1.3 Horizontal Flip 「」: The video image left and right mirror 180 degree flip which is

horizontal flip shown in Fig. 5-6 ◦

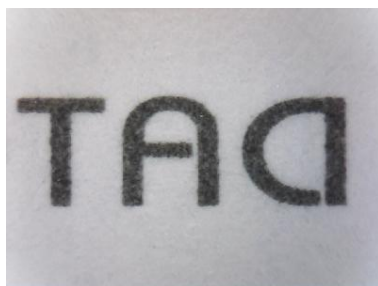

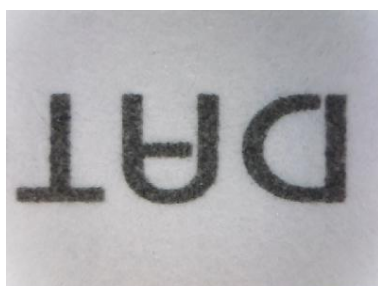



Fig 5-5 Video image do horizontal flip


5.1.4 Vertical and horizontal Flip 「」: The video image will do horizontal and vertical flip shown in Fig. 5-7




5.1.5 Adjust Brightness

「」: To adjust brightness is to click on the brightness button. By scrollbar adjust brightness. If want to default just click it again.

5.1.6 Adjust Contrast

「」: To adjust contract just click the contrast button which can adjust by the scrollbar. If want to default just click it again.

5.1.7 Adjust Exposure

「」: When adjusting the exposure, click on the exposure button and to default just click it again. If this button cannot click, it means there's no diver to support this function. If adjust has no response, then go to 「setting->video source」 it will pop up shown Fig. 5-7. the 「auto mode control」 must be unchecked. If want to use 「auto mode control」 must be checked again.

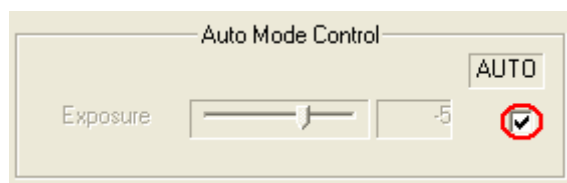


Fig. 5-7 Auto mode control



## 5.2 Scene Mode

Fig. 5-8 Scene mode toolbar. You can choose a different mode by using a different accessory. Its friendly user interface helps to see the image clearly. The LED must be adjusted to the brightest level under these modes.



Fig 5-8 Scene Mode toolbar

### 5.2.1 Mode of Skin exam 「」:

When it applies the skin piece, press the icons, the parameters of the Brightness、Contrast、Saturation & Gain automatically default the original setting in the system. It can also manually adjust the parameter from the 「Setting->Video Source」 or directly adjust the LED wheel and control the brightness. Those performances are different.

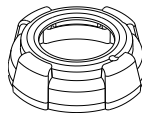



Fig. 5-9 Skin piece

### 5.2.2 Mode of Throat exam

「」: Press the icons to inspect throat, when it applies the throat exam piece. The LED brightness must be adjusted to the brightest one.

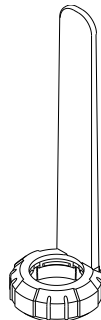



Fig. 5-10 Throat exam piece

### 5.2.3 Mode of Long Dental Mirror

「」: The mode is suitable to observe the rear teeth, when it applies the Long Dental piece, the LED brightness must be adjusted to the brightest one. Refrain from breath onto the Long Dental Mirror, it will atomize the mirror and interfere observation

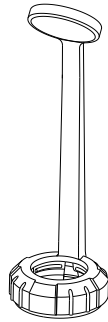


Fig. 5-11 Long Dental Mirror

#### 5.2.4 Mode of Short Dental Mirror



「」: The mode is suitable to observe the front teeth, when it applies the Short Dental piece, the LED brightness must be adjusted to a little bit lower brightness. Refrain from breath onto the Short Dental Mirror, it will atomize the mirror and interfere observation



Fig. 5-12 Short Dental Mirror

#### 5.2.5 Mode of Ear Care

「」: The mode is suitable to inspect inner ear, when it applies the Ear Care piece, the LED brightness must be adjusted to the brightest one.

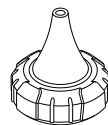



Fig. 5-13 Ear Care piece

#### 5.2.6 Mode of Ear Wax Removal

「」: The mode is suitable to remove inner ear wax, when it applies the Ear Wax Removal, the LED brightness must be adjusted to the brightest one.

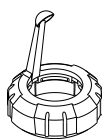


Fig. 5-14 Ear Wax Removal